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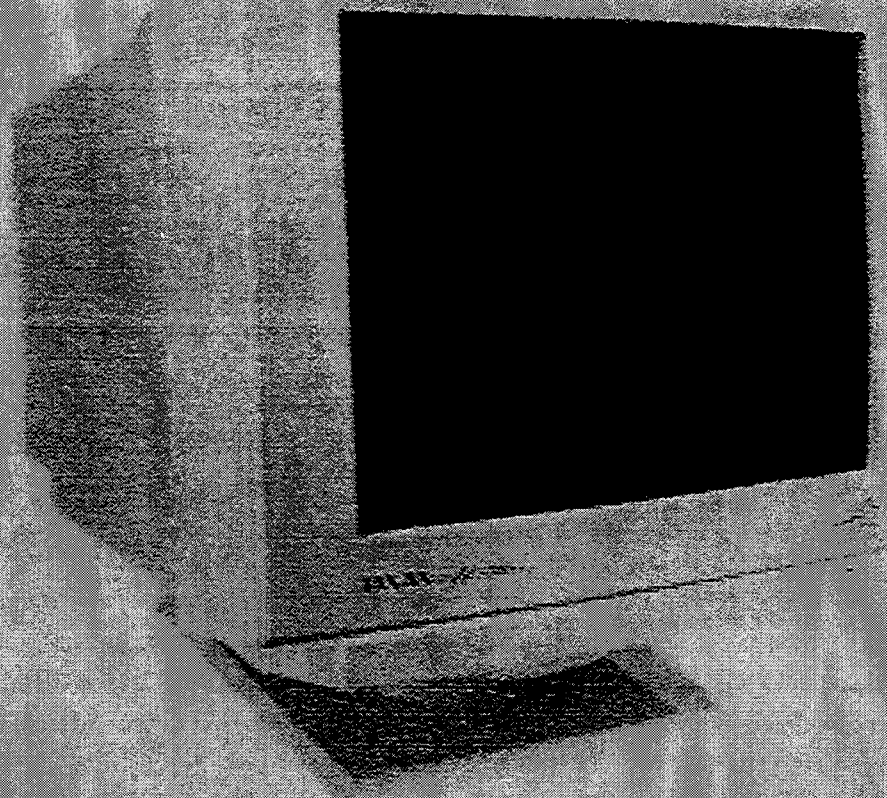
IAXAN



Service Manual

For the Ergovision 580 LR
15" Power Saving Colour Monitor

TAXAN Document Control

Document Title : Ergovision 580 LR Service Manual	
Issue Number: 002	
Issued By: Dick Menhinick	**Date of Issue:** 07/02/95

Revisions:

Addition of Revision 5 Main Board Schematic

TAXAN Safety Notices

Please Note:

The following information is provided in the interests of safety.

1). This equipment is mains powered (230 Volts AC) and is therefore potentially hazardous once the cover is removed.

2). Only trained engineering staff should attempt any work on the unit with the cover removed.

3). While servicing the unit , protect the mains supply to the equipment under test and all electrically powered test equipment with a suitably rated Residual Current Circuit Breaker (rccb) unit. These devices are readily available and are designed to remove the mains supply quickly in the event of a serious leakage of current to earth.

4). Ensure all test equipment, and the unit under test is adequately earthed .

5). Always discharge the CRT before attempting any work on the high voltage power circuits.

6). We advise the use of Electrostatic Damage Prevention equipment when servicing electronic equipment containing static sensitive devices.

TAXAN Ergovision 580LR Service Manual

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SPECIFICATIONS

Application	A typical data display device for graphics & text applications
Power Input	80 watts (nominal); 100 watts maximum
Video Signals	Analog: 0.7 Vp-p, RGB positive
Synchronization Signals	Separate Sync: horizontal/vertical, TTL, positive or negative
Synchronization Frequencies	Horizontal: 30 to 64 KHz Vertical: 55 to 90 Hz
Signal Connectors	15-pin, D-shell connector
Display Tube	15" flat square, 0.28mm dot pitch, in-line gun, non-glare screen
Display Area	265 x 198 mm (H x V), nominal
Display Colors	Infinite
Display Characters	80 char. x 60 rows on a 10 x 10 matrix.
Maximum Resolution	1280 dots x 1024 lines
Misconvergence	Center area: ≤ 0.3 mm Corner area: ≤ 0.45 mm
User Controls	Power on/off, Brightness, Contrast, Horizontal size, Horizontal phase, Vertical size, Vertical center, Manual Degauss, Side pin/barrel, Trapezoid
Service Controls	PWB-1168: R-bias (VR910), G-bias (VR940), B-bias (VR970) PWB-1170: voltage adjust (VR823), HV adjust (VR832), balance (VR402), parallel (VR401), vertical linearity (VR303), cut-off adjust (VR441), corner hook (VR361), R-gain (VR502), G-gain (VR532), B-gain (VR562), screen focus PWB-1171: H-center

Environmental Conditions	Operation: 10 to 35°C ambient Storage: 0 to 65°C ambient Humidity: 8% to 80% (non-condensing) Altitude: up to 7000 ft. above sea level
Dimensions	378 x 373 x 387 mm (H x W x D)
Gross Weight	13kgs

SIGNAL CABLE PIN CONNECTIONS

Pin	Signal	Pin	Signal
1	red signal	9	NC
2	green signal	10	ground
3	blue signal	11	ground
4	ground	12	NC
5	ground	13	horizontal synchronization
6	red return	14	vertical synchronization
7	green return	15	NC
8	blue return		

SAFETY PRECAUTIONS AND NOTICES

Safety Precautions

1 Observe all cautions and safety related notes located inside the monitor cabinet and on the monitor chassis.

2 Operation of the monitor outside its cabinet or with the cover removed involves the risk of shock from the monitor power supply. Repair work on the monitor should not be attempted by anyone who is not thoroughly familiar with all necessary safety precautions and procedures for working on high voltage equipment.

3 Do not install, remove, or handle the picture tube in any manner unless shatter-proof goggles are worn. People not so equipped should be kept at a distance during handling of the picture tube. Keep the picture tube away from the body during handling.

4 The picture tube is constructed to limit X-radiation to 0.5mR/HR at 300 microamperes anode current. For continued protection, use the recommended replacement tube only, and adjust the voltages so that the designated maximum rating at the anode will not be exceeded.

Product Safety Notice

Many electrical and mechanical parts in this chassis have been specially inspected for safety, and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage etc. Before replacing any of these components, read the spare parts list at the end of this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as those specified in the spare parts list may result in shock, fire, X-radiation or other hazards.

Service Notes

1 When replacing parts or circuit boards, clamp the lead wires around the terminals before soldering.

2 When replacing a high wattage resistor (>0.5W metal oxide film resistor) in the circuit board, keep the resistor about 1 cm(1/2") away from the circuit board.

3 Keep wires away from high voltage or high temperature components.

4 Keep wires in their original positions so as to minimize interference.

Safety Test

Before returning a serviced monitor to customer, a thorough safety test must be performed to verify that the monitor is safe to operate without danger of shock. Always perform the AC leakage current check on the exposed metallic parts, such as screw heads, as follows:

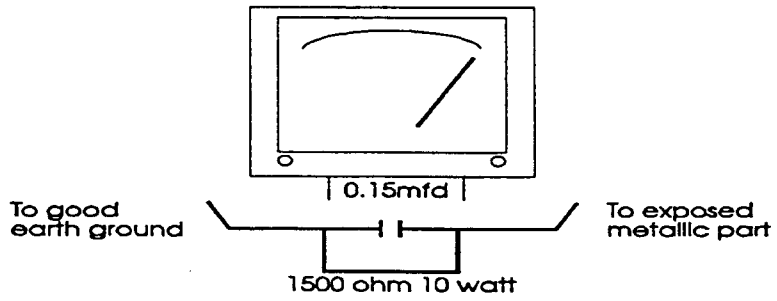
1 Plug the AC line cord directly into a rated AC outlet. Do not use a line isolation transformer during this check.

2 Use an AC voltmeter having at least 5000 ohms per volt sensitivity as follows:

Connect a 1500 ohms 10 watt resistor, paralleled by a 0.15mfd, AC type capacitor between a known good earth ground (such as water pipe or conduit etc.) and the exposed metallic part simultaneously. Measure the AC voltage across the combination of 1500 ohms resistor and 0.15mfd capacitor.

3 Reverse the AC plug at the AC outlet and repeat the steps for AC voltage measurements for each exposed metallic part.

4 Voltage measure must not exceed 0.3 volts RMS. This corresponds to 0.2 milli-amps AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



ALIGNMENT AND ADJUSTMENT

Adjustment Conditions

Power supply: Apply AC110V, 60Hz or 220V, 50Hz

Warm-up time: The monitor should be powered on for at least 15 minutes before any adjustments are made, except for convergence, then 30 minutes are required.

Signal input:

1.	Video	RGB Analog, 0.7Vp-p/75Ω, positive
2.	Synchronization	Horizontal and vertical separate, positive or negative
3.	Scanning Frequencies:	FH: 30 - 64 KHz FV: 55 - 90 Hz

4. All adjustments should be made using a signal of FH=31.468 KHz, unless otherwise defined.

Adjustment Equipment

- Volt-ohm-A meter (Sanwa FD-750C or equivalent)
- 30KV high voltage probe (HP34111A)
- Oscilloscope (TEK2235 or equivalent)
- Minolta Color Analyzer II
- Signal generator (IBM PC with proper display cards or Chroma 2000)
- Screwdriver

Note	This monitor implies power saving function, so if no signal comes in or signal cable disconnected from PC, the monitor will switch to "OFF" state automatically and the LED is off. To avoid this inconvenience when in servicing, push the slide switch on the CRT board to "Service" position to disable the power saving function. But be sure to push it back to "Normal" position after servicing.

Addendum: Service switch is on the daughter board and not on the CRT board as indicated above

Alignment Procedures

A Switching Power Supply Adjustment

The regulated B+ control has been pre-set in the factory and needs no adjustment. However, if any repairs are made on the power supply section, the following readjustment procedures are recommended.

1 Allow the monitor to warm-up for about 15 minutes.

2 Apply the VGA (31.468 KHz) signal to the monitor.

3 Connect a DC voltmeter to **TP1** (on the main PCB), and adjust **VR823** for 25±0.1V DC.

4 If a fuse is broken during adjustment, remember to replace it with the exact same type of fuse.

B Picture Size Adjustment

Input signal: Cross Hatch Pattern

10 modes had been preset in the factory and stored in the memory, they can be obtained by pressing the "MEMORY RECALL" key inside the front door; additional mode setting can be achieved through the use of the buttons inside the door, data will be saved in the memory automatically 1.5 seconds after the buttons are released.

C White Balance Adjustment

Input Signal: Full White Pattern - VGA mode

Drive VRs:	VR502, VR532, VR562	(in main board)
Bias VRs:	VR910, VR940, VR970	(in CRT board)

1a Set Brightness to maximum & Contrast to minimum.
1b First adjust VR940 to its center position.

Then adjust VR970 so that Y= 0.311
and adjust VR910 so that X= 0.281

N.B. VR970/910 should be adjusted alternately until no further adjustment is required

Input Signal: 50mm x 50mm White Block Pattern

2a Set Brightness to max. & Contrast to maximum.
2b Adjust VR532 for 40Vp-p at the G. gun cathode.

3a Set Brightness to raster just cut off & Contrast to 20 FL.
3b First adjust VR562 so that Y= 0.311
then adjust VR502 so that X= 0.281

4a Set Brightness to the center scale & G2 voltage just before the raster appears.
4b Check the white balance in the VGA mode.

5a Set Brightness just before raster disappears.
5b Repeat steps 2b to 5b until the best white balance is obtained.

D Anode Voltage Adjustment

Input Signal: Cross Hatch Pattern (31.5K timing)

Connect the DC voltmeter to CRT anode with HP34111A probe, and adjust **VR832** to obtain the voltage output for about 25.0V (25KV)

E G1 Voltage Adjustment

Input Signal: Cross Hatch Pattern (31.5K timing)

Connect the DC voltmeter to G1 test pin (in main board) and adjust **VR441** to obtain the voltage output for about -40V (Brightness key setting in center scale.)

Addendum: The actions described in paragraph D should be carried out afer paragraph A!

Addendum: in para 3b above, VR562/502 should be adjusted alternately until no further adjustment is required

F Focus Adjustment

Input signal: Character "e" pattern

1 Set Brightness & Contrast for a normal display.

2 Adjust the focus control at the high voltage transformer block to obtain the best focus over the entire display area.

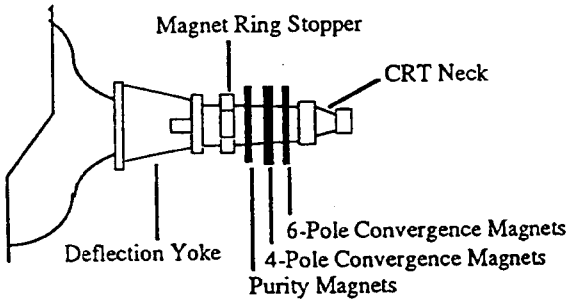
G Static Convergence Adjustment

> **Note** The monitor should be operated for at least 30 minutes before any convergence adjustments are made.

Input Signal: Cross Hatch Pattern

1 Set Brightness & Contrast so that a well-defined pattern is obtained.

2 Ensure that the convergence magnets on the CRT are in the correct position.



3 Turn the 2 tab of the 4-pole magnets independently to adjust their angles. Align the red & blue vertical lines at the center of the screen.

4 Turn the 2 tabs of the 4-pole magnets simultaneously to keep their angles constant. Align the red & blue horizontal lines at the center of the screen.

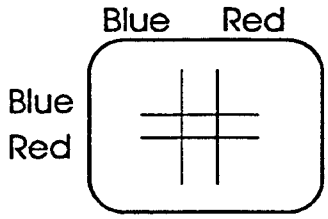
5 Turn the 2 tabs of the 6-pole magnets independently to superimpose the red or blue vertical line on the green one.

6 Turn the 2 tabs of the 6-pole magnets simultaneously to superimpose the red or blue horizontal line on the green one.

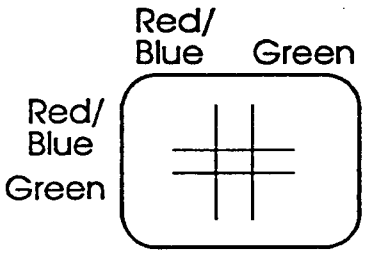
Addendum: DO NOT ADJUST THE PURITY MAGNETS

7 Repeat steps 3, 4, 5 & 6 until the best convergence is obtained.

Note	The 4-pole magnets & the 6-pole magnets interact, making dot movements complex.



4-pole magnets movement



6-pole magnets movement

H Degaussing

Degaussing is required when poor color purity appears on the screen. This monitor uses an automatic degaussing circuit that is activated at power on. Manual degaussing will be fully functional within 15 minutes.

The degaussing effect is confined to the picture tube since the coils are mounted at the back of the tube. Should any part of the chassis or cabinet becoming magnetized, it will be necessary to degauss the affected area with a manual degaussing coil.

Manual Degaussing

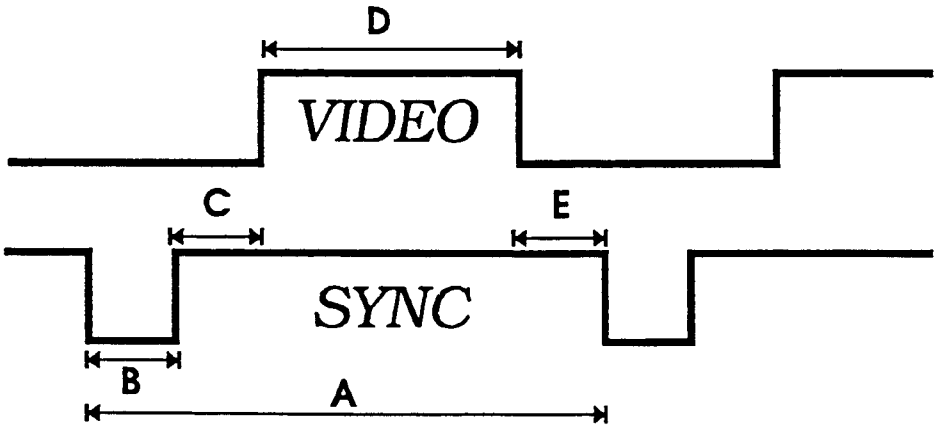
1 Apply line voltage to the degaussing coil and move it in a rotary motion over the front, sides , and top of the monitor. The coil should be kept away from the rear of the monitor to avoid damaging the magnetic neck components.

2 Slowly rotate and move the coil away from the monitor to about 6 feet beyond the point where no effect on the CRT will be noticeable.

For proper degaussing, it is essential that the field be gradually reduced by moving the coil slowly away from monitor. The degaussing coil must never be shut off or disconnected while near the monitor, as this would introduce a strong field instead of canceling the effect of the stray fields.

TIMING CHART

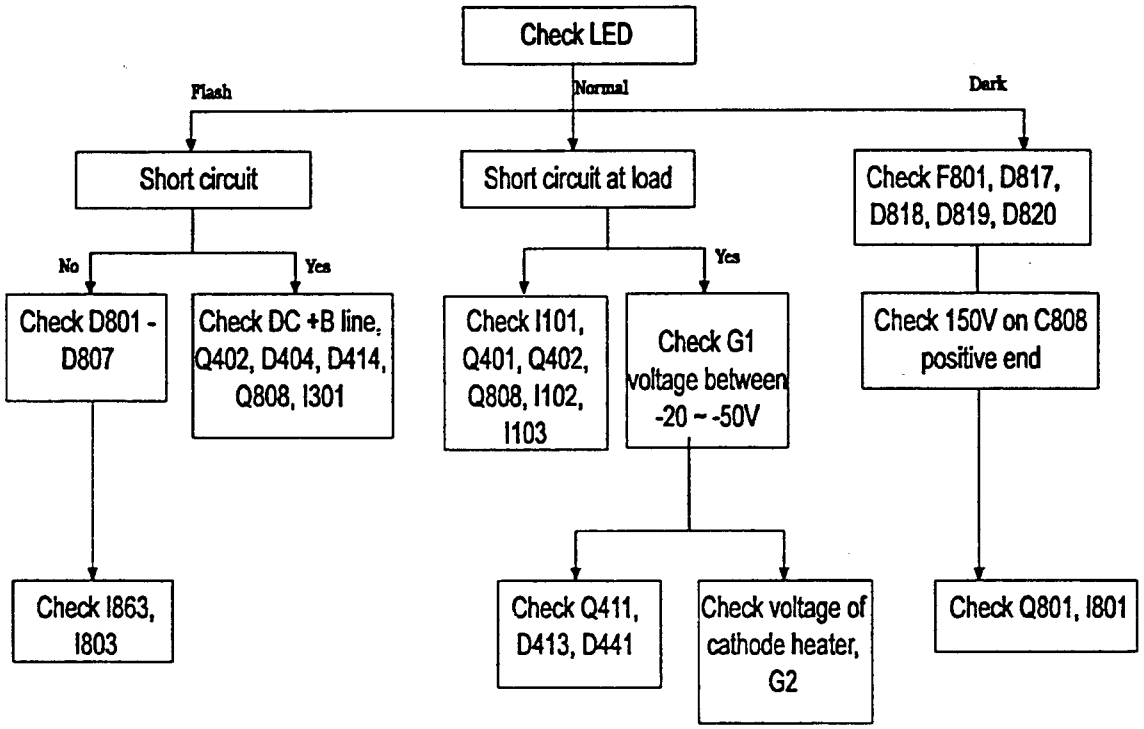
	Mode 1	Mode 2	Mode 3	Mode 4	Mode 5
Hori. Dots	640	640	640	800	640
Vert. Lines	350	400	480	600	480
Hori. Frequency (KHz)	31.47	31.47	31.47	35.16	37.86
Sync. Polarity	POS	NEG	NEG	NEG	NEG
A μs	31.78	31.78	31.78	28.44	26.413
B μs	3.81	3.81	3.81	2.00	1.27
C μs	1.907	1.907	1.907	3.556	4.06
D μs	25.42	25.42	25.42	22.22	20.317
E μs	0.636	0.636	0.636	0.667	0.76
Vert. Frequency (Hz)	70.08	70.08	59.95	56.25	72.81
Sync. Polarity	NEG	POS	NEG	NEG	NEG
A ms	14.27	14.27	16.68	17.78	13.735
B ms	0.064	0.064	0.064	0.057	0.079
C us	1.87	1.080	1.02	0.626	0.74
D ms	11.12	12.71	15.25	17.07	12.678
E ms	1.21	0.413	0.35	0.0284	0.238



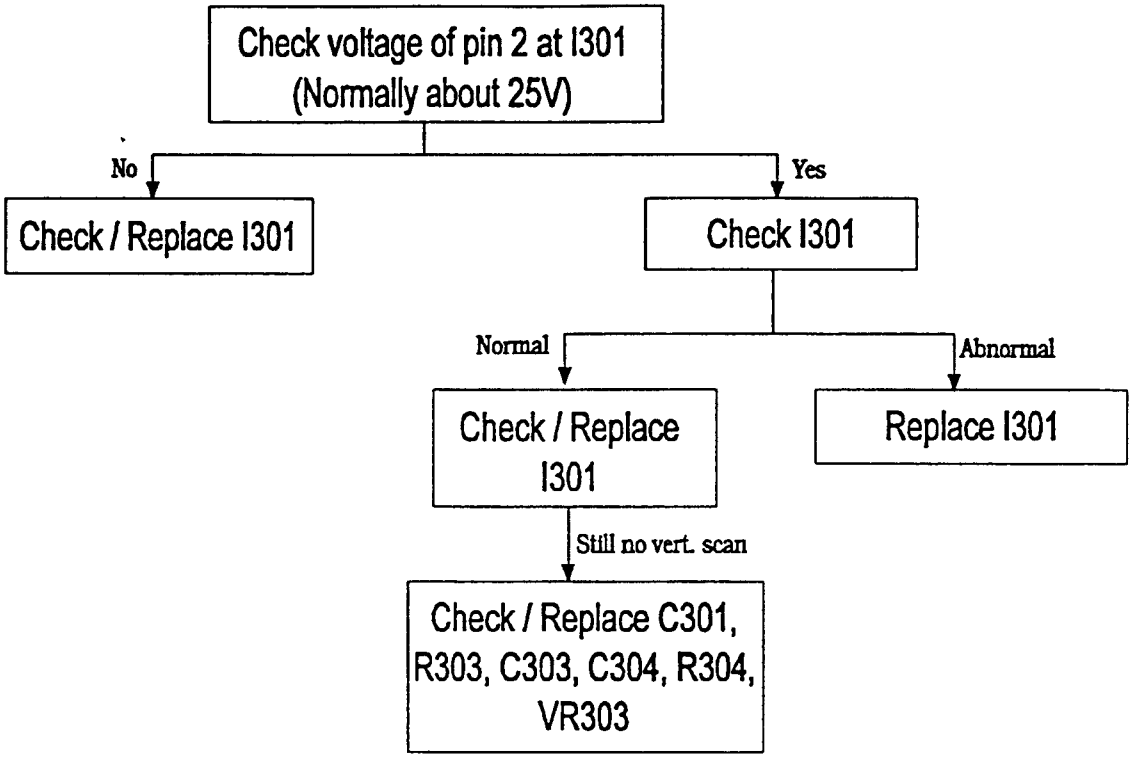
	Mode 6	Mode 7	Mode 8	Mode 9	Mode 10
Hori. Dots	800	800	1024	1024	1280
Vert. Lines	600	600	768	768	1024
Hori. Frequency (KHz)	37.88	48.08	48.36	56.48	64.34
Sync. Polarity	POS	POS	NEG	NEG	POS
A μs	26.40	20.80	20.677	17.707	15.55
B μs	3.20	2.40	2.23	1.813	0.972
C μs	2.20	1.28	2.622	1.920	2.248
D μs	20.0	16.00	15.75	13.653	11.961
E μs	1.00	1.12	0.369	0.320	0.374
Vert. Frequency (Hz)	60.32	72.01	60.00	70.07	60.00
Sync. Polarity	POS	POS	NEG	NEG	POS
A ms	16.58	13.87	16.67	14.272	16.667
B ms	0.106	0.125	0.124	0.106	0.047
C us	0.607	0.478	0.600	0.513	0.501
D ms	15.84	12.51	15.88	13.599	16.025
E ms	0.026	0.770	0.062	0.053	0.094

TROUBLE SHOOTING CHART

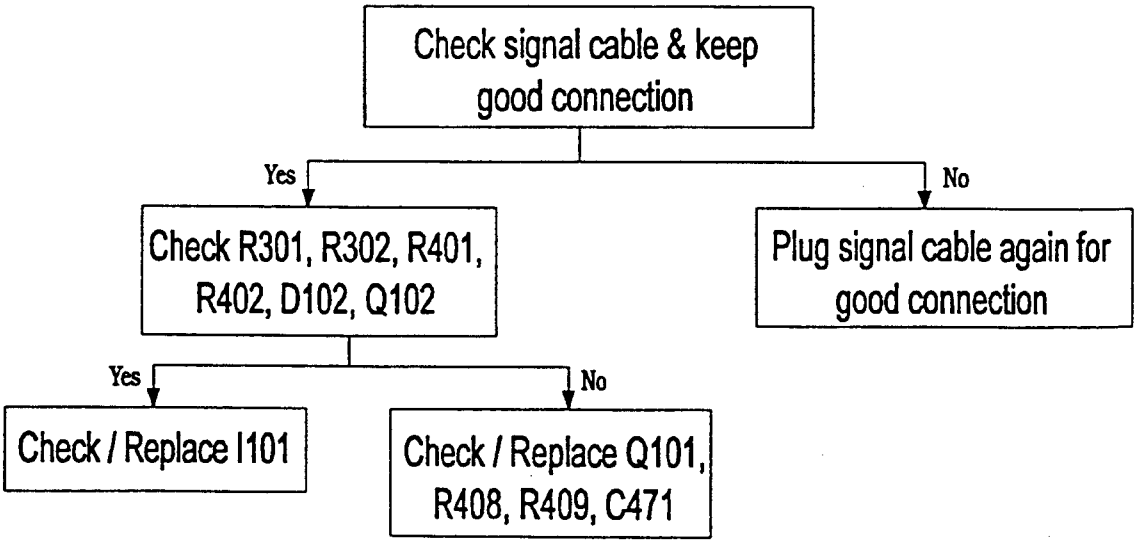
No Raster



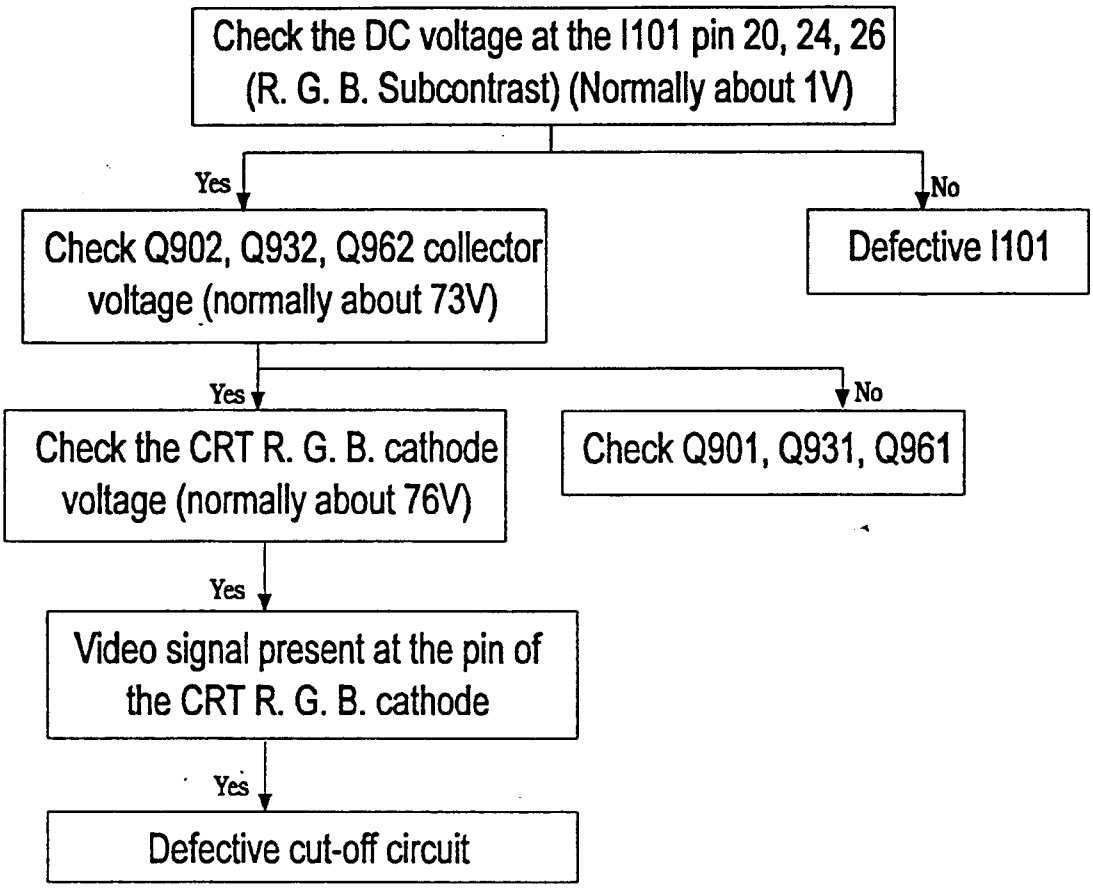
No Vertical Scan (Raster is one horizontal line)



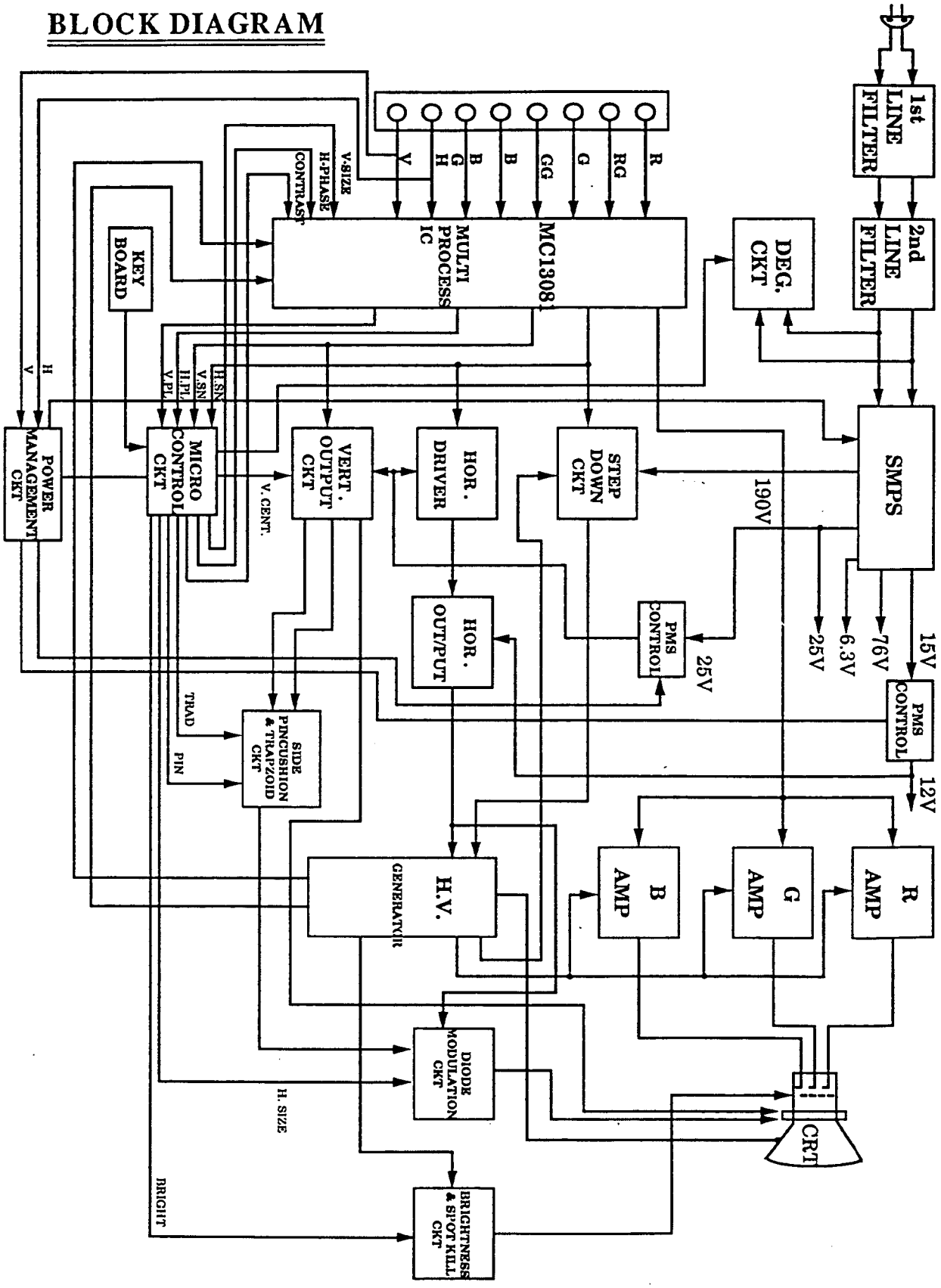
Out of Synchronization

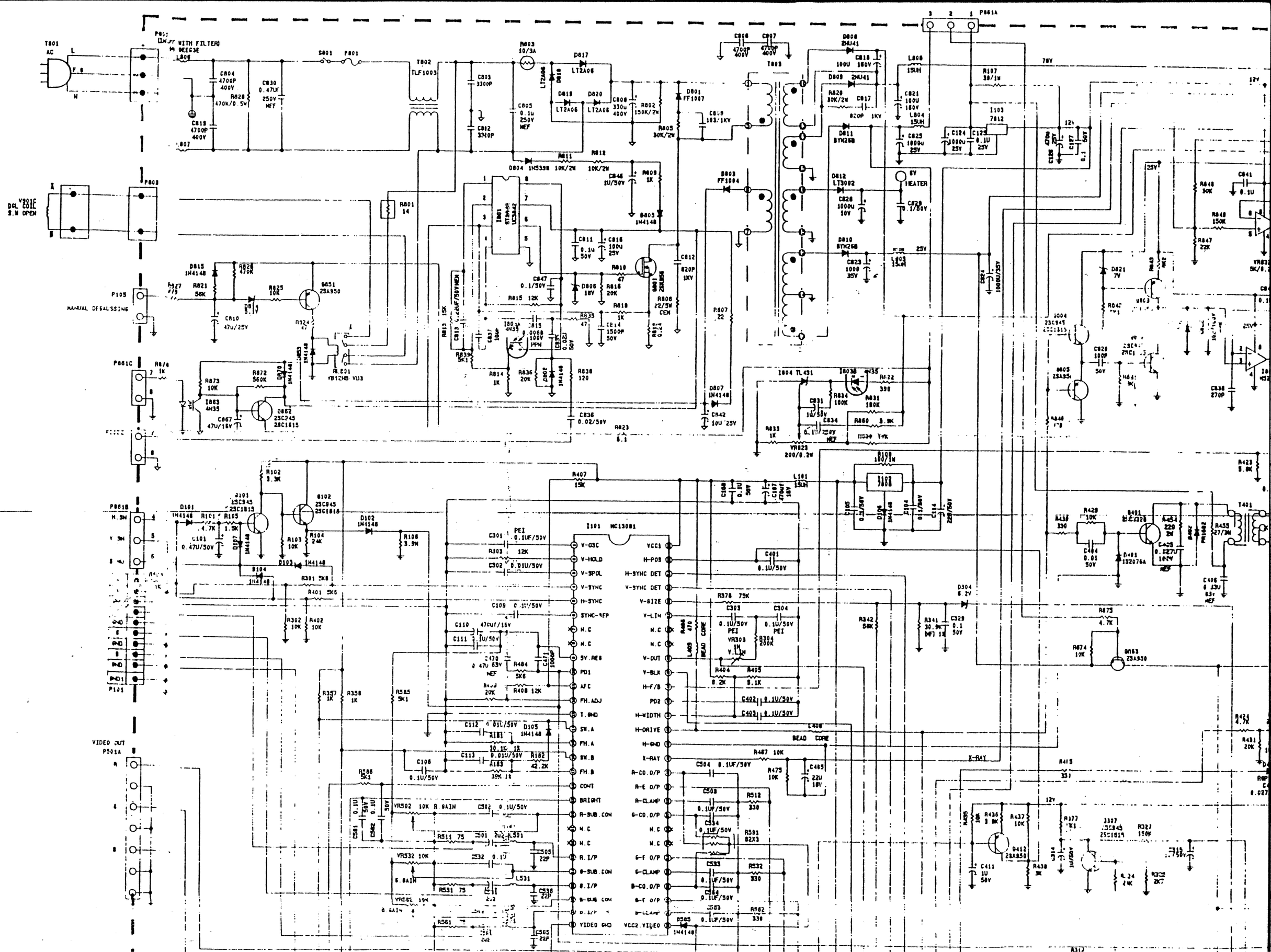

Check signal cable & keep good connection
Yes
No
Check R301, R302, R401, R402, D102, Q102
Plug signal cable again for good connection
Yes
No
Check / Replace I101
Check / Replace Q101, R408, R409, C471

R. G. B. Video AMP Abnormal


Check the DC voltage at the I101 pin 20, 24, 26 (R. G. B. Subcontrast) (Normally about 1V)
Yes
No
Check Q902, Q932, Q962 collector voltage (normally about 73V)
Defective I101
Yes
No
Check the CRT R. G. B. cathode voltage (normally about 76V)
Check Q901, Q931, Q961
Yes
Video signal present at the pin of the CRT R. G. B. cathode
Yes
Defective cut-off circuit

BLOCK DIAGRAM




T801
AC
L
N
F.G
P801 LINE FILTER WITH FILTER
IN DEGAUSS
L806
C804 4700P 400V
R828 470K/0.5W
C830 0.47UF 250V MEF
C819 4700P 400V
S801
F801
T802 TLF1003
C803 3300P
C812 3340P
R803 10/3A
D817 LT2A06
D818 LT2A06
D819 LT2A06
D820 LT2A06
C805 0.1U 250V MEF
C808 330U 400V
R802 150K/2W
D801 FF1007
R805 30K/2W
C809 103/1KV
C806 4700P 400V
C807 4700P 400V
T803
D808 2A41
D809 2A41
C818 100U 160V
R820 30K/2W
C817 820P 1KV
D811 BYK26B
D812 LT3002
C826 1000U 10V
D810 BYK26B
C823 1000 35V
L808 15UH
L804 15UH
L803 15UH
C821 100U 160V
C825 1000U 25V
R107 39/1W
I103 7812
C124 1000U 25V
C125 0.1U 25V
C135 470U 25V
C127 0.1 50V
8V HEATER
C828 0.1/50V
76V
12V
25V
P808
DEL V881E 181E S.W OPEN
P105
MANUAL DEGAUSSING
P801A
P801C
P801B
P101
VIDEO OUT P501A
R801 14
D804 1N5398 10K/2W
R811
R812 10K/2W
C846 1U/50V
R809 1K
D805 1N4148
B803 FF1004
I801 STR9455 UC3842
C811 0.1U 50V
C816 100U 25V
C847 0.1/50V
D806 18V
R816 20K
R810 47
R818 1K
R835 47
C814 1500P 50V
R808 22/5W CEM
R819 0.22
C812 820P 1KV
R807 22
D807 1N4148
CR42 10U 25V
R813 15K
C813 0.22UF/50V MEN
C837 104
R839 5K1
C815 0.0068 100V PPM
C835 0.022 50V
R814 1K
R836 20K
D802 1N4148
R838 120
C836 0.02/50V
R823 6.1
D815 1N4148
R824 470K
R821 56K
R825 10K
Q851 2SA950
D816 1N4148
CR10 47U/25V
R824 47
R826 1K
Q863 4N35
R873 10K
R872 560K
D870 1N4148
Q862 2SC945 2SC1815
C867 47U/16V
RL201 YB12HB-V03
I804 TL431
I803 4N35
R834 180K
R831 180K
R822 390
C831 1U/50V
C834 0.1U/250V MEF
R860 3.9K
VR830 1K
R833 1K
VR823 200/0.2W
R839 180/1W
I102 7812
L101 15UH
C187 470UF 16V
C188 0.1U 50V
C105 0.1/50V
D105 1N4148
C104 0.1/50V
C114 220/50V
R423 3.9K
C401 0.1U/50V
R102 3.3K
Q101 2SC945 2SC1815
Q102 2SC945 2SC1815
D101 1N4148
R101 4.7K
R105 1.5K
C101 0.47U/50V
D107 1N4148
R103 10K
R104 24K
D102 1N4148
R108 3.9K
D103 1N4148
D104 1N4148
R301 5K6
R401 5K6
R302 10K
R402 10K
R407 15K
I101 MC13081
C301 PEI 0.1UF/50V
R303 12K
C302 0.01U/50V
C109 0.1U/50V
C110 470UF/16V
C111 1U/50V
C470 0.47U 63V MEF
R484 5K6
C471 1000P
R408 12K
R357 1K
R358 1K
R585 5K1
C112 0.01U/50V
R181 10.1K 1%
C113 0.01U/50V
R182 42.2K
R183 39K 1%
C106 0.1U/50V
R586 5K1
C501 0.1U 50V
C502 0.1U 50V
VR502 10K B GAIN
R511 75
C503 0.1U/50V
C505 22P
VR532 10K
C532 0.1U
L531
R531 75
C538 22P
G GAIN
VR561 10K
R561
C565 22P
V-OSC
V-HOLD
V-SPOL
V-SYNC
H-SYNC
SYNC-SEP
N.C
N.C
5V.REG
PD1
AFC
FH.ADJ
T.GND
SW.A
FH.A
SW.B
FH.B
CONT
BRIGHT
R-SUB.CON
N.C
N.C
R.I/P
G-SUB.CON
B.I/P
B-SUB.CON
G.I/P
VIDEO GND
VCC1
H-POS
H-SYNC DET
V-SYNC DET
V-SIZE
V-LIN
N.C
N.C
V-OUT
V-BLK
H-F/B
PD2
H-WIDTH
H-DRIVE
H-GND
X-RAY
R-CO.O/P
R-E O/P
R-CLAMP
G-CO.O/P
N.C
N.C
G-F O/P
G-CLAMP
B-CO.O/P
B-F O/P
B-CLAMP
VCC2.VIDEO
R378 75K
C303 0.1U/50V PEI
C304 0.1U/50V PEI
VR303 1M V.LIN
R404 8.2K
R405 9.1K
C402 0.1U/50V
C403 0.1U/50V
L405 BEAD CORE
L406 BEAD CORE
R487 10K
R479 10K
C485 22U 16V
C504 0.1UF/50V
C508 0.1UF/50V
R512 330
C534 0.1UF/50V
R591 82X3
C533 0.1UF/50V
R532 330
C564 0.1UF/50V
C563 0.1UF/50V
R562 330
D585 1N4148
D304 6.2V
R342 68K
R341 30.9K (MF) 1%
C329 0.1 50V
R875 4.7K
R874 10K
Q863 2SA950
X-RAY
R415 331
R436 3.3K
R437 10K
Q412 2SA950
C411 1U 50V
R438 3K
R439 1K
R377 1K
Q307 2SC945 2SC1815
R327 150K
C315 .1/50V
R328 2K
R329 2K
R424 4.7K
R431 20K
R428 10K
Q401 2SC1328
R451 220
C405 0.22/7V 16CV
C406 0.33U 63V MEF
T401
R453 27/2W
C404 0.01 50V
D401 1S2076A
R438 330
R441 330
C841 0.1U
R848 30K
R849 150K
R847 22K
VR832 5K/0.5
D821 7V
R843 1K2
Q863 2SA950
Q804 2SC945 2SC1815
C820 100P 50V
Q805 2SA950
R840 1K0
R841 1K0
C836 270P
R844 1K0
R845 1K0
R846 1K0
C824 1000U/25V
R847 1K0
R848 1K0
R849 1K0
R850 1K0
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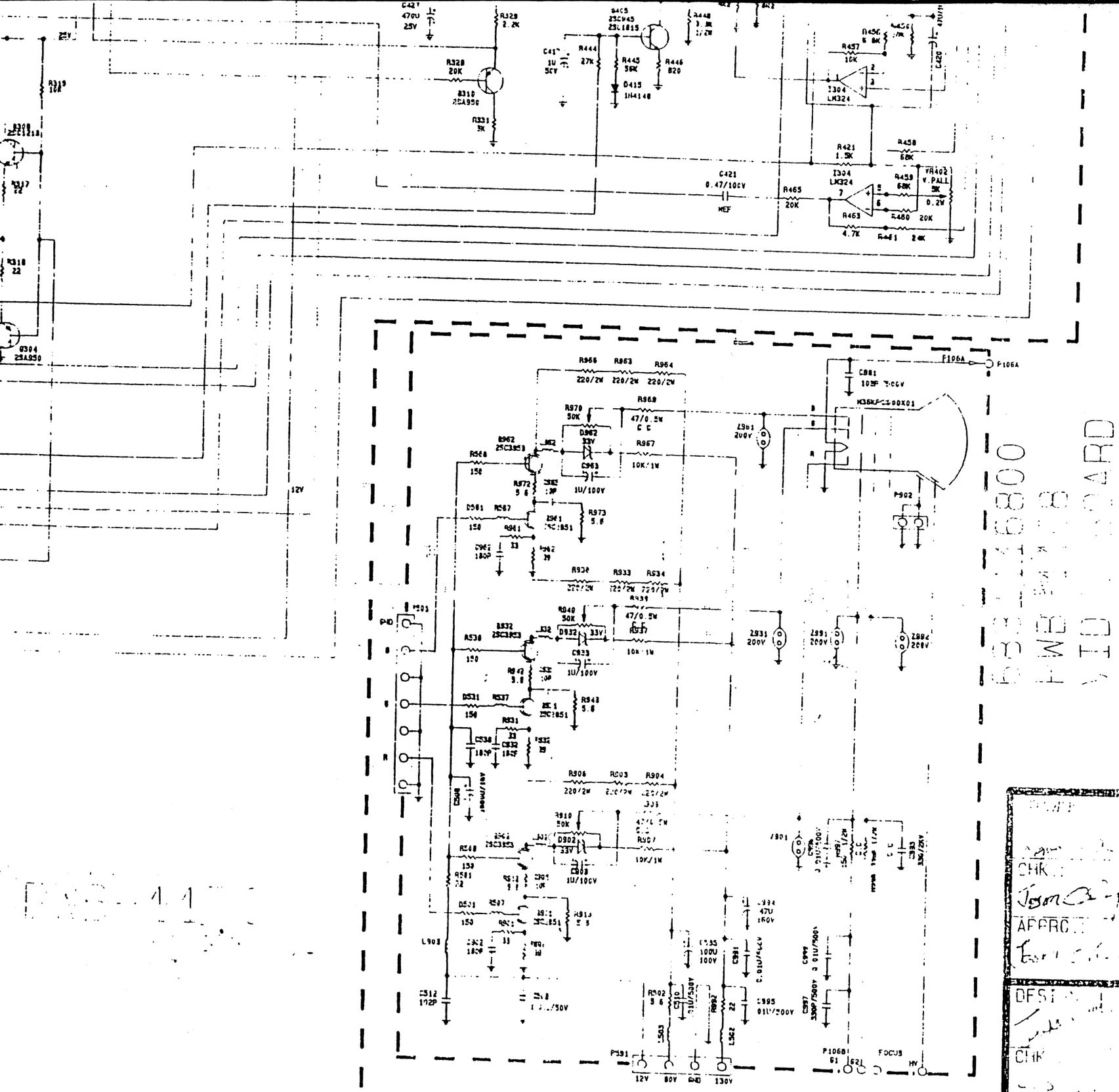
REVISION HISTORY



PASSED QUALITY ASSURANCE

CHK DATE

APPRO DATE

DEST DATE

CHK DATE

APPRO DATE

TAXAN

Ergovision 580LR

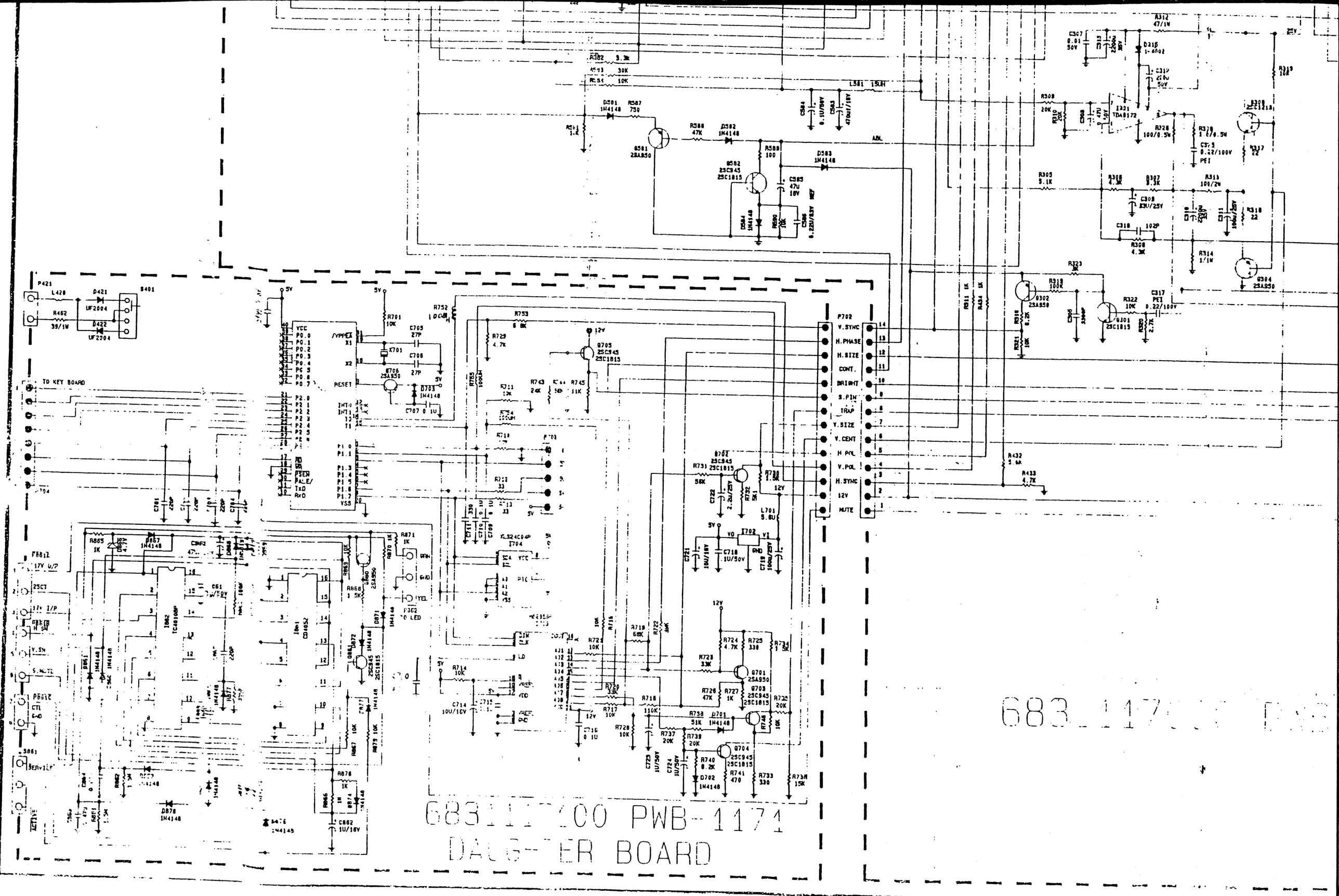
Main Board / Video Board / Daughter Board Schematic

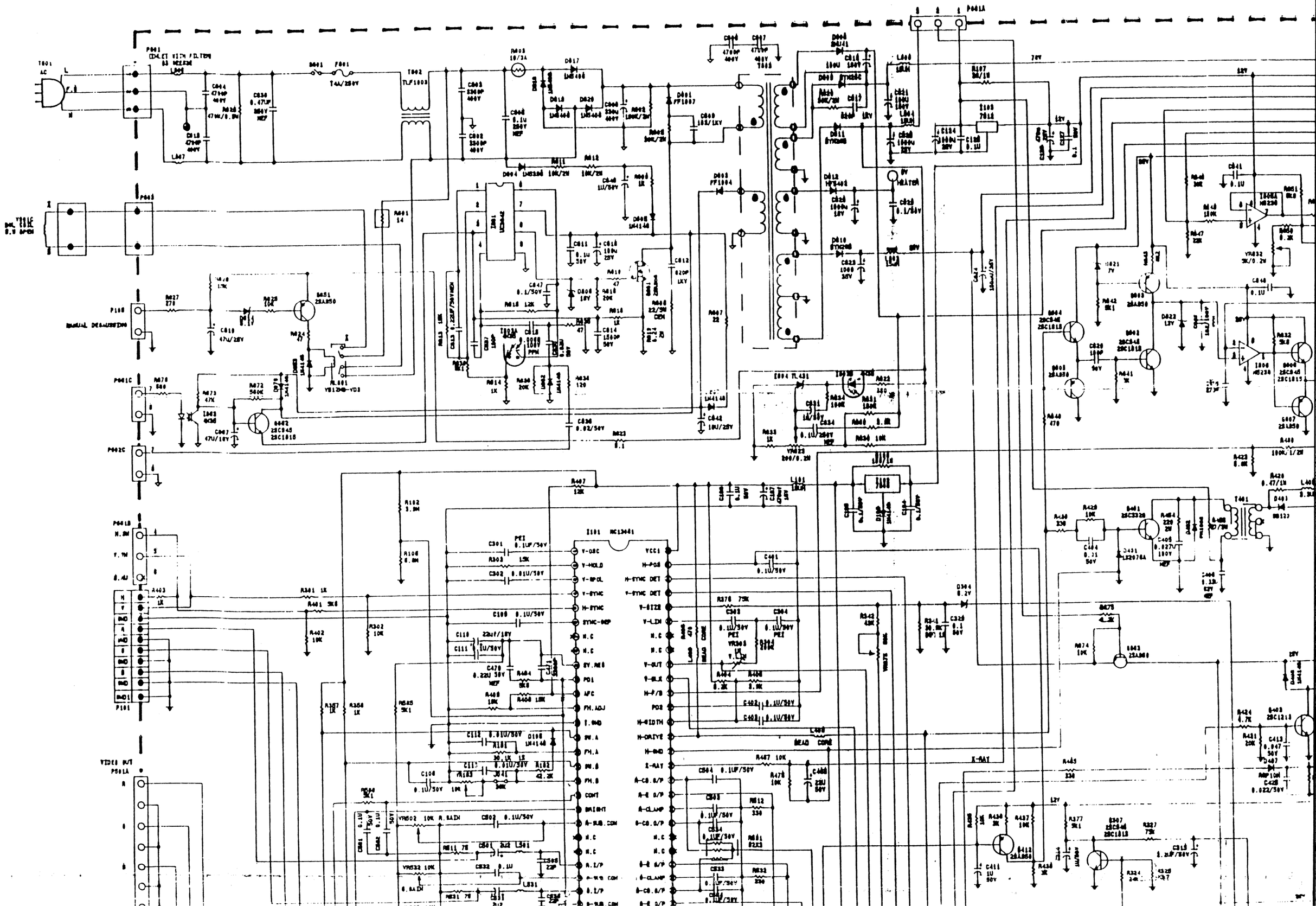
DWG No. 8911700000 Rev01

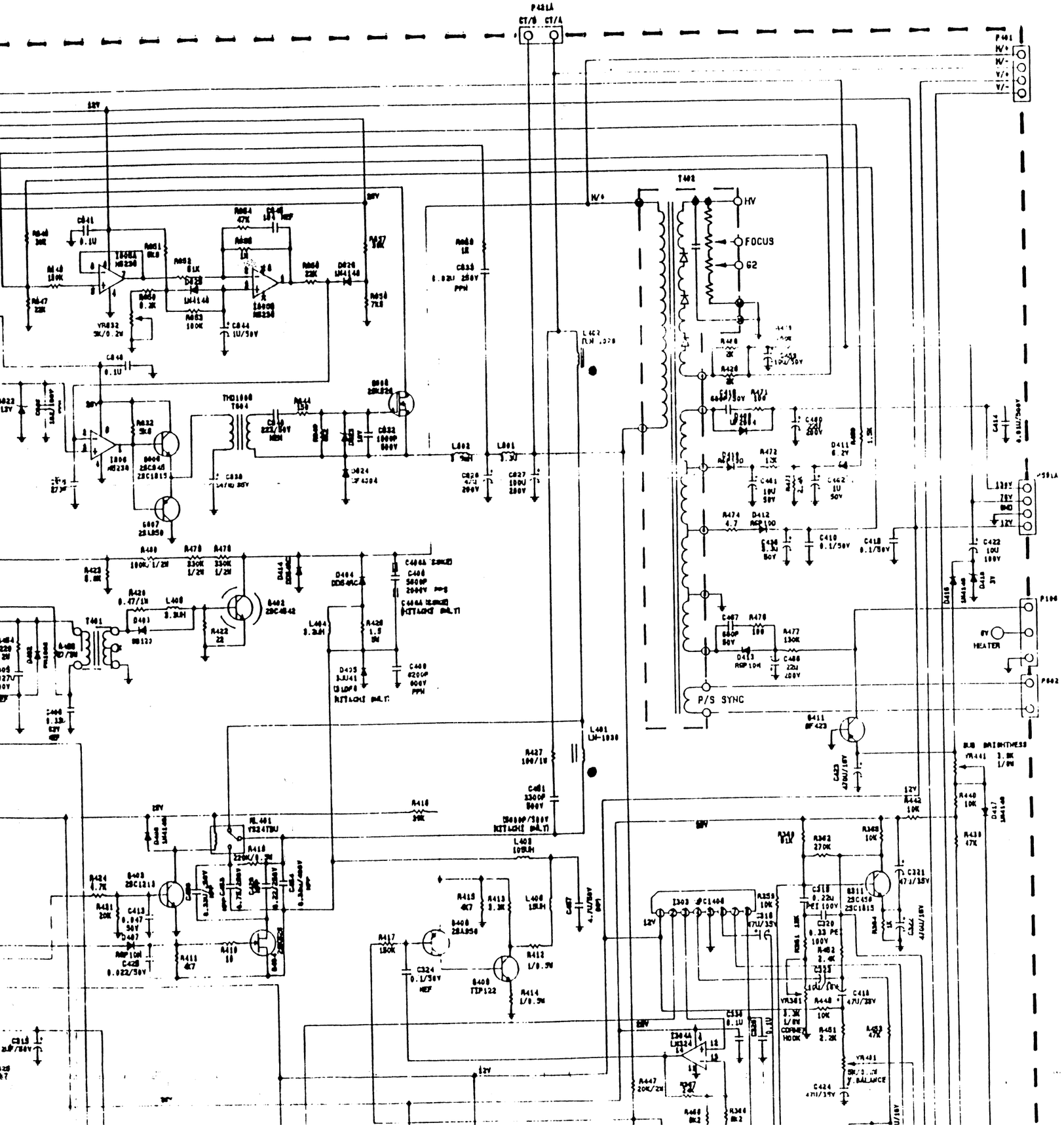
PCB No. 68311170000

68311171000

68311168000


TO KEY BOARD
P702
V.SYNC
H.PHASE
H.SIZE
CONT.
BRIGHT
S.PIN
TRAP
V.SIZE
V.CENT
H.POL
V.POL
H.SYNC
12V
MUTE
683-1700 PWB-1171
DAUGHTER BOARD



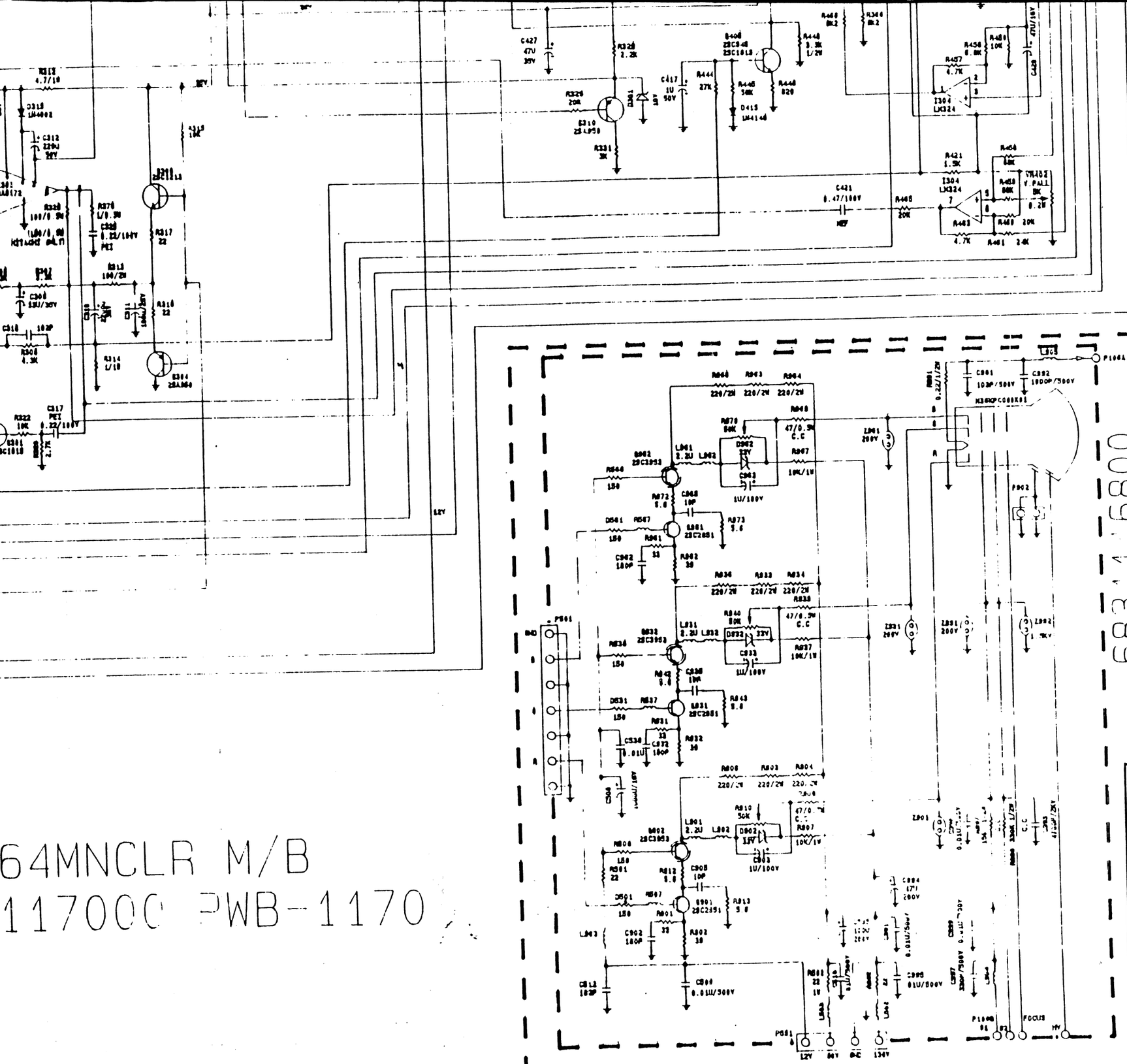


REVISION HISTORY

ECN: 9000002022 08/18/93
ECN: 9000002029 08/24/93
ECN: 9000002042 08/30/93
ECN: 9000002044 08/30/93
ECN: 9000002053 09/03/93
ECN: 9000002055 09/03/93
ECN: 9000002097 09/24/93
ECN: 9000002118 09/24/93
ECN: 9000002123 09/24/93
ECN: 9000002139 10/22/93
ECN: 9000002155 11/03/93
ECN: 9000002170 11/03/93
ECN: 9000002218 12/07/93
REV: 02

ECN: 9000002296 01/17/94
ECN: 9000002322 01/26/94
ECN: 9000002328 02/01/94
ECN: 9000002339 02/21/94
ECN: 9000002361 03/04/94
ECN: 9000002385 03/28/94
REV: 03

ECN: 9000002398 04/11/94
ECN: 9000002420 04/27/94
REV: 04



64MNCLR M/B
117000 PWB-1170

6831117000 PWB-1168

PCB BOARD

TAXAN

Ergovision 580LR
Main - Video - Daughter board
Schematic

Revision 5 November 18 1994

PCB No: 6831117000
6831117100
6831116800

CM1564MNCLR M/B

6831117000 PWB-

6831117100 PWB-1171

DAUGHTER BOARD

SPARE PARTS LIST

Location	Part Number	Description
-	5197801401	Main brd. ass'y (deflection; include power supply)
-	5196700211	Ctrl. ass'y
-	5197700316	CRT brd. ass'y
-	5198200076	Daughter brd. (μ/C control h-center & power saving)
OV901	6811152815	CRT 15" & deflection yoke ass'y Matsushita
OS801	6853000602	Power switch 220V
P101A	6715004700	I/O signal cable 1.5M
D817-D820	6412010907	Diode CT2A06 2A/800V
F801	6851004050	Fuse time lag 4A/250V SEMKO
I101	6442006300	IC 56P MC13081 B
Q901, Q931, Q961	6421000250	TR NPN 2SC2851
Q902, Q932, Q962	6422002800	TR NPN 2SC3953N
I301	6442006200	IC 7P TDA8172
I303	6442003500	IC 9P UPC1406H AS1P
I304	6442005900	IC 14P HOR LM324
Q401	6421000295	TR NPN 2SC3328Y
Q402	6422002500	TR NPN 2SC4542
Q409	6422003100	TR NPN T1P122
Q808	6426000080	POWER MOS FET 2SK526
O6B01	7742203300	CABINET REAR
O8CC01	7737700201	CABINET, SWIVEL BASE
O6F01	7742203200	FRONT BEZEL